

Comparisons of Job Characteristics

Focus Occupation: [First-Line Supervisors of Farming, Fishing, and Forestry Workers \(45-1011\)](#)

Associated Occupation: [Farmers and Ranchers \(11-9012\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 72

Focus Occupation: First-Line Supervisors of Farming, Fishing, and Forestry Workers (45-1011)

Associated Occupation: Farmers and Ranchers (11-9012)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Food Production	2.1	13.6	6.5	<<	Extensive education and/or training may be required
Mechanical	6.8	13.4	11.3	<	Expanded education and/or training may be required
Administration and Management	8.4	11.9	11.2	0	Current knowledge level may be sufficient
Biology	3.7	10.0	8.0	<	Expanded education and/or training may be required
Economics and Accounting	4.4	9.8	5.6	<<	Extensive education and/or training may be required
Building and Construction	4.0	9.4	6.4	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 41

Focus Occupation: First-Line Supervisors of Farming, Fishing, and Forestry Workers (45-1011)

Associated Occupation: Farmers and Ranchers (11-9012)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation and Control	5.4	12.7	9.0	<<	Extensive development of skills in this area may be required
Operation Monitoring	6.6	12.3	9.3	<<	Extensive development of skills in this area may be required
Monitoring	9.9	11.4	13.1	>	Skill level is likely sufficient
Quality Control Analysis	5.9	10.6	9.6	<	A higher skill level may be required

Troubleshooting	4.5	10.3	6.7	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	10.0	6.6	<<	Extensive development of skills in this area may be required
Repairing	3.4	9.1	6.4	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	8.5	6.3	<<	Extensive development of skills in this area may be required
Management of Financial Resources	3.3	6.7	8.5	>	Skill level is likely sufficient
Management of Material Resources	3.7	6.7	8.8	>>	Skill level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 75			
Focus Occupation: First-Line Supervisors of Farming, Fishing, and Forestry Workers (45-1011) Associated Occupation: Farmers and Ranchers (11-9012)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	13.6	9.5	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	12.5	8.6	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	12.5	9.1	<<	Extensive improvement in abilities may be required
Static Strength	5.0	11.9	8.0	<<	Extensive improvement in abilities may be required
Depth Perception	5.3	11.2	8.6	<<	Extensive improvement in abilities may be required
Visual Color Discrimination	6.4	11.2	8.0	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	10.7	6.4	<<	Extensive improvement in abilities may be required
Spatial Orientation	2.7	7.7	5.3	<<	Extensive improvement in abilities may be required
Peripheral Vision	2.2	5.7	4.8	<	Some improvement in abilities may be required
Night Vision	2.1	5.6	4.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 100	
Focus Occupation: First-Line Supervisors of Farming, Fishing, and Forestry Workers (45-1011) Associated Occupation: Farmers and Ranchers (11-9012)			

Work Activities	Exclusivity of Activity
Administer medications or treatments	46
Analyze operational or management reports or records	62
Analyze organizational operating practices or procedures	70
Artificially inseminate livestock	87
Assign work to staff or employees	30
Conduct training for personnel	30
Demonstrate or explain assembly or use of equipment	61
Develop policies, procedures, methods, or standards	21
Direct and coordinate activities of workers or staff	3
Direct workers in planting, irrigating, cultivating, harvesting, or marketing	92
Drive automobile, van, or light truck	53
Drive truck with capacity greater than 3 tons	72
Establish employee performance standards	69
Estimate materials or labor requirements	61
Estimate time needed for project	64
Evaluate performance of employees or contract personnel	54
Examine animals to detect illness, disease, or injury	81
Explain work orders, specifications, or work techniques to workers	82
Follow contract, property, or insurance laws	70
Follow horticulture irrigation techniques	87
Hire, discharge, transfer, or promote workers	47
Identify crop characteristics	75
Identify fruit or vegetable or crops ready for harvest	87
Identify livestock characteristics	81
Inspect crops or fields	87
Inspect crops to determine quality	89
Inspect facilities to determine repair or replacement needs	82
Judge soil conditions	77
Maintain or repair farm vehicles, machinery, or mechanical implements	81
Maintain production or work records	19
Modify work procedures or processes to meet deadlines	80
Monitor animal care	99
Monitor forage plant growth	92
Monitor number or type of fish reared or harvested	95
Monitor worker performance	57
Negotiate business contracts	60
Observe fish or beds or ponds	95
Observe plants, flowers, shrubs or trees to ascertain condition	87
Operate agricultural equipment or machinery	81
Operate tractor with accessories or attachments	76
Order or purchase supplies, materials, or equipment	35
Orient new employees	59
Oversee work progress to verify safety or conformance to standards	49
Perform safety inspections in agricultural, forestry, or fishing setting	77
Plan development or production of hybrid plant varieties	95
Plan harvesting	99

Plan logging operations	99
Plan or organize work	51
Plant, cultivate, or harvest crops, including aquaculture	80
Prepare or maintain employee records	69
Prepare reports	8
Preserve, cure, or cold store meat, poultry or fish	89
Recognize disease or parasites in animals	72
Recognize plant diseases	72
Recognize tree or forest plant species	78
Resolve agricultural production problems	84
Resolve logging operation problems	99
Resolve or assist workers to resolve work problems	72
Schedule activities, classes, or events	71
Schedule employee work hours	60
Study production records	99
Transport passengers or cargo	64
Understand second language	75
Use animal disease control techniques	82
Use fish culturing techniques	89
Use herbicides, fertilizers, pesticides or related products	71
Use oral or written communication techniques	1
Use plant disease control techniques	75

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 94

Focus Occupation: First-Line Supervisors of Farming, Fishing, and Forestry Workers (45-1011)
Associated Occupation: Farmers and Ranchers (11-9012)

Tools and Technologies	Exclusivity
Agricultural machinery for harvesting	35
Agricultural machinery for planting and seeding	33
Agricultural machinery for soil preparation	35
Audio and visual equipment	4
Business function specific software	1
Computers	1
Content authoring and editing software	1
Conveyors and accessories	18
Data management and query software	1
Dispensing tools	6
Dispersing and spraying appliances for agriculture	26
Earth moving machinery	11
Finance accounting and enterprise resource planning ERP software	2
Forming tools	2

Garden tools	12
Heavy equipment components	21
Holding and clamping tools	3
Industrial drying equipment	33
Information exchange software	1
Network applications software	1
Passenger motor vehicles	13
Poultry and livestock equipment	33
Power tools	2
Product and material trailers	24
Product and material transport vehicles	13
Specialized and recreational vehicles	17
Veterinary equipment	40
Weight measuring instruments	7

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.